Annex

QUESTIONNAIRE FOR THE TESTING OF THE GUIDANCE ON RISK ASSESSMENT OF LIVING MODIFIED ORGANISMS

GENERAL INFORMATION ABOUT THE TESTING							
	☐ Party. Please specify: UK						
Q1. These results are being submitted on behalf of a:	☐ Other Government. Please specify: <country's name=""></country's>						
Commit Of the		Organization: Please specify: <organization's name=""></organization's>					
Q2. When was the testing of the Guidance conducted?	Please enter date: November 2011						
		Group event (e.g., workshop, training course, meeting). Please provide the title of the event and name of organizer: <type here=""></type>					
		Type of meeting:					
		Online					
Q3. Type of event where the testing of the Guidance was conducted?		Individual exercise. Please provide your name, occupation and affiliation: Dr Louise Ball. Risk assessor in the UK competent authority for releases of LMOs into the environment and secretary to the UK advisory committee that deals with the release of GMOs into the environment.Comments are based on whether previous concerns raised by the UK or its advisory committee (ACRE) have been addressed in the latest version of the guidance.					
		Other: Please specify: <type here=""></type>					
O4. Which sections of the Guidance		Part I: The Roadmap for Risk assessment of LMOs Part II: Specific types of LMOs or Traits:					
were tested?	Risk assessment of LMOs with stacked genes or traits						
		☐ Risk assessment of LM crops with tolerance to abiotic stress					
		Kisk ass	sessment of	LM mosquite	oes		
OVERALL EVALUATION							
			Very poor	Poor	Neutral	Good	Very good
Please indicate the level of agreement you a	ttribute	to each of th	ne questions	in the left col	 umn.		
Q5. How do you evaluate the level of consistency of the Guidance with the Cartagena Protocol on Biosafety, particularly with its Article 15 and Annex III?					\boxtimes		
Q6. How do you evaluate the usefulness of the Guidance as a tool to assist countries in conducting and reviewing risk assessments of LMOs in <u>a scientifically sound and case-by-case manner</u> ?			\boxtimes				

Q7. How do you evaluate the usefulness of the Guidance as a tool to assist countries in conducting and reviewing risk assessments of LMOs introduced into various receiving environments?					
PART I: ROADMAP FOR RISK ASSESSMENT OF LIVING MODIFIED ORGANISMS					
Please answer each of the questions in the left column with "yes" or "no" and add comments if needed.					
Q8. Does the Roadmap provide useful guidance for conducting risk assessments of LMOs in accordance with the Protocol?	□ Yes ⊠ No	significa simplify Howeve highligh Howeve from thi guidance such as useful ir consider expressi stability persister risk. Em in tande	nts: The Roadmap lantly since the last ving and reducing the need for probability of the points to consequence of the risk assessment include information levels and genor include information on levels and genor include information the reducing the need means as shown in the characterising risk atting information the	version through a mount of to ever further. To blem formulation is derappear did be very usefus as to why in the e.g. where to on copy nurtypic/phenoty iding example hay be associate to carry out still flow chart, with the end of the e.g. where the end of	ext. The guidance ion. isconnected ful if the formation would be the points to mber, pic swhere ted with a teps 2 and 3 ll help nazards (i.e.
Q9. Is the Roadmap useful to risk assessors who have limited experience with LMO risk assessment?	☐ Yes ☑ No	framewo context.	nts: The list of point ork for a research p It might be difficult thout more experie	roject without It to see the 'w	more
Q10. Is the Roadmap organized in a logic and structured manner?	⊠ Yes	Comme	nts: <type here=""></type>		
Q11. Is the Roadmap user-friendly taking into account that risk assessment is a complex scientific and multidisciplinary activity?	☐ Yes	Comme	nts:		
Q12. Is the Roadmap applicable to all types of LMOs (e.g. plants, animals, microorganisms)?	☐ Yes ⊠ No		nts: It is applicable animals and partic		
Q13. Is the Roadmap applicable to all types of introductions into the environment (e.g. small- and large-scale releases, placing on the market/commercialisation)?	☐ Yes ☑ No	inexperi informa environi release,	nts: See Q9 - it mig enced assessors to ion requirements for mental exposure an particularly with re risation data.	differentiate bor a trial with a d those for lar	etween the minimal ger-scale
Q14. Is there any other issue or concept that you would like to see included in the Roadmap?	⊠ Yes	systema approaci inclusio	nts: Previously the tic approaches to R hes were introduced n of worst-case scenar issues such as ho	A such as tiered. We also sugnarios. This is	ed ggested the particularly

Q15. Does the flowchart provide a useful graphic representation of the risk assessment process as described in the Roadmap?	⊠ Yes □ No	Comments: <the (of="" 5="" a="" again.="" allow="" also="" an="" and="" any="" are="" arise="" as="" at="" be="" being="" between="" box="" box?<="" by="" characterise="" completed="" complex.="" could="" decision-making="" decision.="" developed="" do="" enough="" from="" in="" included="" information="" is="" issue="" it="" just="" lmo,which="" main="" manager="" need="" new="" not="" of="" part="" point,="" posed="" potential="" process-="" process.="" quality="" question="" ra="" reach="" relevance)="" removed="" requisite="" risk="" risks="" rm="" step="" strategies="" th="" that="" the="" there="" they="" this="" to="" turn="" under="" unneccessarily="" whether="" will="" window=""></the>
---	---------------	---

PART II: SPECIFIC TYPES OF LIVING MODIFIED ORGANISMS OR TRAITS

Risk assessment of living modified organisms with stacked genes or traits

Please answer each of the questions in the left column w	vith "yes" or "n	o" and add comments if needed.		
		Comments: We have serious reservations about the scientific credibility of this section. It conveys a lack of understanding that genomes are not fixed entities differences/ changes are inevitable. This is compounded by a lack of problem formulation/ risk hypotheses.		
Q16. Does this section provide useful guidance when conducting risk assessments of LMOs with stacked genes or traits in accordance with the Protocol?	☐ Yes ⊠ No	The guidance does not explain that some importing countries do not regulate stacked events. In addition, the scope restricts this guidance to LMOs comprising LM events that have been assessed previously. There is a strong possibility that assessors will need to consider LMOs containing multiple events in which all of the individual events have not been considered before.		
Q17. Is this section of the Guidance useful to risk assessors who have limited experience with risk assessments of LMOs with stacked genes of traits?	☐ Yes	Comments:		
Q18. Is this section of the Guidance organized in a logic and structured manner?	☐ Yes ⊠ No	Comments: <type here=""></type>		
Q19. Is this section of the Guidance user-friendly taking into account that risk assessment is a complex scientific and multidisciplinary activity?	☐ Yes	Comments: <type here=""></type>		
Q20. Is there any other issue or concept that you would like to see included in this section of the Guidance?	☐ Yes	Comments: <type here=""></type>		
Risk assessment of living m	odified crops v	vith tolerance to abiotic stress		
Please answer each of the questions in the left column w	rith "yes" or "n	o" and add comments if needed.		
Q21. Does this section provide useful guidance when conducting risk assessments of LM crops with tolerance to abiotic stress(es) in accordance with the Protocol?	□ Yes ⊠ No	Comments: This section does not add significantly to the Roadmap in terms of specific issues. It is arguable that the issues highlighted could be introduced as examples in the Roadmap (where they are already referred to e.g. altered potential to persist / invade new habitats/ selection of sites for field trials). This section of the guidance places a great deal of emphasis on the potential for unexpected pleitrophic effects conferring tolerance to additional biotic and abiotic stresses. However, it does not suggest that the molecular characterisation of the LMO might include a consideration of specificity (e.g. if a transcription factor is involved - some are very specific whereas others are not).		

Q22. Is this section of the Guidance useful to risk assessors who have limited experience with risk assessments of LM crops with tolerance to abiotic stress(es)?	☐ Yes ☐ No	Comments: <type here=""></type>			
Q23. Is this section of the Guidance organized in a logic and structured manner?	☐ Yes ☐ No	Comments: <type here=""></type>			
Q24. Is this section of the Guidance user-friendly taking into account that risk assessment is a complex scientific and multidisciplinary activity?	☐ Yes	Comments: <type here=""></type>			
Q25. Is there any other issue or concept that you would like to see included in this section of the Guidance?	☐ Yes ☐ No	Comments: <type here=""></type>			
Risk assessment of living modified mosquitoes					
Please answer each of the questions in the left column w	vith "yes" or "no	o" and add comments if needed.			
Q26. Does this section provide useful guidance when conducting risk assessments of LM mosquitoes in accordance with the Protocol?	□ Yes ⊠ No	Comments: Our previous concerns about this section remain. The document is perfunctory and fails to provide adequate details on the risk assessment or management of LM mosquitoes. Primary literature sources have been taken out of context and/or poorly understood (e.g., Benedict et al. 2008). A tiered approach to testing of LM mosquitoes must be emphasised in this sort of guidance.			
Q27. Is this section of the Guidance useful to risk assessors who have limited experience with risk assessments of LM mosquitoes?	☐ Yes	Comments: <type here=""></type>			
Q28. Is this section of the Guidance organized in a logic and structured manner?	☐ Yes ☐ No	Comments: <type here=""></type>			
Q29. Is this section of the Guidance user-friendly taking into account that risk assessment is a complex scientific and multidisciplinary activity?	☐ Yes ☐ No	Comments: <type here=""></type>			
Q30. Is there any other issue or concept that you would like to see included in this section of the Guidance?	☐ Yes	Comments: <type here=""></type>			
ADDITIONAL COMMENTS					
Please add any additional comment you may have regarding the "Guidance on Risk Assessment of Living Modified Organisms" below.					
Q31. <please comments="" here="" type="" your=""></please>					
